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Clean Room Fabric Chart

Delaney Uniform Service's cleanroom garments come in various fabrics:

BURLINGTON C3®

Burlington C3® is engineered to meet a Class 10 cleanroom's rigid demands for the microelectronics industry. The fabric is designed to guard the product against airborne particles, static dissipative charges, bacteria, and lint. It is made from a dense plain weave 100% multifilament polyester yarn with a microengineered carbon fiber inter-woven into a grid pattern.

- **Air Porosity:** 3.7 CFM
- **Surface Resistivity:** 10 to 100 megohms
- **Static Decay:** .01 Sec.
- **Chemical Resistance:** equal to 100% polyester

CHEMSTAT 909 SERIES®

Stern & Sterns CHEMSTAT 909 and 909A are two antistatic fabrics with a patented conductive yarn that is an extruded copolymer of polyester and carbon that is impervious to industrial laundering in excess of 300 washings. CHEMSTAT 909A is a tighter version of the CHEMSTAT 909 material for use in Class-10 cleanrooms. Both are 100% DACRON polyester fabrics employing the patented raised grid conductive fiber for static dissipation.

- **100% Polyester.** 3 oz/sq. yd.
- **Weight:** 3.00 oz/sq. yd.
- **Air Porosity:** 909A - less than 1.0 CFM/FT² ; 909 - 14.0 CFM/FT²
- **Static Decay:** 0.5 sec

CHEMSTAT 919 SERIES®

Stern & Sterns CHEMSTAT 919 is composed of 100% multifilament NOMEX, an inherently flame retardant material with the same patented conductive grid as 909/909A.

- **Weight:** 5.00 oz/sq. yd.
- **Air Porosity:** 10.0 CFM/FT²
- **Static Decay:** 0.15 sec

CHEMSTAT 949 SERIES®

Stern & Sterns CHEMSTAT 949 is a general purpose garment fabric designed for those cleanrooms or assembly areas where static is a primary concern but microcontamination is not. Aside from its use as a primary cleanroom garment it is also suited for use in building suits.

- **Weight:** 3.30 oz/sq. yd.

- **Air Porosity:** 25.0 CFM/FT²
- **Static Decay:** 0.02 sec

HERRINGBONE & TAFFETA POLYESTERS

DuPont's 100% Dacron polyester yarn is woven into both taffeta and herringbone weaves. Taffeta fabric is constructed in a plain weave while herringbone is a heavier broken-twill weave that produces a balanced zigzag effect. Both serve in many cleanroom and peripheral area applications as an effective barrier for airborne particles and bacteria filtration.

- **100% Dacron polyester:** Taffeta 2.58 oz/ sq. yd.- Herringbone 4.3 oz/sq yd
- **Excellent resistance to acids and alkalies**
- **Extremely limited tinting**
- **High resistance to sagging**

HIGH DENSITY TAFFETA

High Density Taffeta is a 100% polyester multifilament plain weave fabric. It was developed to provide long lasting barrier protection for fluid, bacteria, and particle penetration. Being lightweight and breathable ensures the technician's comfort in a Class 10 cleanroom.

- **100% polyester:** 3 oz/ sq. yd.
- **Air Porosity:** 1.56 CFM
- **Bacteria Filtration:** 100% resistant
- **Spray Rating:** 100%

INTEGRITY 1600®

INTEGRITY 1600® Precision Fabrics INTEGRITY 1600 is a densely woven filament DACRON polyester fabric containing an ESD stripe. INTEGRITY 1600 is designed for use as building suits worn in conjunction with the Integrity barrier fabrics. The fabric is treated with a durable antimicrobial and soil releasing finish for easy care.

- **Weight:** 2.65 oz/sq. yd.
- **Air Porosity:** 33 CFM/FT²
- **Mean Pore Size:** 30 microns
- **Static Decay Warp :** +0.12 sec 0.04 sec
- **Fill:** n/a

INTEGRITY 1700®

INTEGRITY 1700® Precision Fabrics INTEGRITY 1700" was developed to be the highest performing economical choice for less critical environments requiring a grid fabric. Integrity 1700" is manufactured using a proprietary process resulting in the lightest and most uniform fabric in its class.

- **Weight:** 2.60 oz/sq. yd.
- **Air Porosity:** less than 1.0 CFM/FT²
- **Mean Pore Size:** 8 microns
- **Static Decay:** Warp: - +0.01 sec -0.01 sec
- **Fill:** n/a

INTEGRITY 1800®

INTEGRITY 1800® Precision Fabrics INTEGRITY 1800" is a densely woven filament DACRON polyester striped fabric designed to meet the quality and performance standards demanded by the protective apparel industry. This product is highly fluid repellent and

also contains a durable antimicrobial compound.

- **Weight:** 2.67 oz/sq. yd.
- **Air Porosity:** less than 1.0 CFM/FT²
- **Mean Pore Size:** 2 microns
- **Static Decay:** Warp - +0.01 sec -0.01 sec
- **Fill:** n/a

INTEGRITY 2000®

INTEGRITY 2000® Precision Fabrics INTEGRITY 2000® is a densely woven filament DACRON polyester grid fabric designed to meet the quality and performance standards demanded by the protective apparel industry. This product is highly fluid repellent and also contains a durable antimicrobial compound.

- **Weight:** 2.77 oz/sq. yd.
- **Air Porosity:** less than 1.0 CFM/FT²
- **Mean Pore Size:** 1 micron
- **Static Decay:** Warp +0.01 sec -0.01 sec
- **Fill:** +0.01sec -0.01 sec

SELGUARD II BY TEIJINSELGUARD®

Teijinseguard Selguard II® is a highly functional Class 100 cleanroom fabric which offers both excellent particulate control and antistatic performance without compromising employee comfort. This non-linting fabric is a continuous filament, 100% polyester twill with electrically conductive fibers sleeved in polyester and integrally woven into a grid design.

- **100% polyester:** 3.25 oz/sq. yd.
- **Air Porosity:** 34.5 CFM
- **Surface Resistivity:** Warp - 18 mohms/sq., Weft - 8.7 mohms/sq
- **Static Decay:** .01 sec
- **Chemical resistance:** equal to 100% Polyester

SELGUARD 110® by TEIJINSELGUARD

Teijinseguard Selguard 110 is a 100% polyester plain-weave fabric with a grid pattern of nylon electro-conductive yarn. Worn only as an undergarment, this Cleanroom-acceptable fabric is lightweight, soft, and extremely comfortable.

- **100% polyester:** 1.7 oz/ sq. yd.
- **Air Porosity:** 19.3 CFM
- **Surface Resistivity:** 30 mohms/sq.

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